Shaurya Chandhoke

Software Engineer
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Objective

Passionate graduate student leveraging education in computer science with strong technical acumen. Seeking opportunities to utilize my skills in enterprise-grade software engineering, data analytics, and algorithmic trading to further refine my proficiency in machine learning.

Skills

Libraries	NumPy, Pandas, Matplotlib, Scikit-learn, CVXOPT, Chart.js, Tensorflow, Keras.
Machine Learning	Regression, Clustering, Classification, Computer Vision, Deep Learning, Convex Optimization, NLP.
Technologies	Elasticsearch, RabbitMQ, Jenkins, Jupyter, Docker, Kubernetes, AWS, GraphQL, Spark, Splunk, Redis.
Operations	JUnit, PyUnit, Mockito, Selenium, Mocha, Jasmine, Git, Jira, Scrum, Vault, DevOps.
Frameworks	Angular, Spring Boot, Django, Flask, Bootstrap.
Methodologies	Agile Development, CI/CD, Object Oriented Programming, Test Driven Development, Microservice Design.

Professional Experience

Software Engineer *August 2020–Present*
ADP LLC. *Roseland, NJ*

- Developed several full stack internal web applications leveraging Angular, Spring Boot, PostgreSQL, and Elasticsearch to support business analysts and enterprise architects.
- Created streamlined web components which parse through complex JSON documents to improve site traffic and interaction by 20%-30%.
- Constructed autonomous microservices built in Java utilizing RabbitMQ to facilitate the manual processes that occur during development and improve work throughput by 15%-20%.

Global Product and Technology Intern *May 2019–August 2019*
ADP LLC. *Roseland, NJ*

- Designed and refined server-side tools written in JavaScript for API development.
- Operated under CI/CD and Agile software development frameworks to efficiently organize and carry out project tasks with an emphasis in quality and reliability.
- Collaborated with developers on researching task automation with IBM Watson-powered chat bots.

Research Assistant *January 2018–December 2018*
NJIT ROBOTICS AND DATA LABORATORY *Newark, NJ*

- Manufactured a cohesive system for connecting an A2M8 lidar with a Zumo 32U4 robot.
- Researched and implemented a sensor fusion program in C++ for simultaneous localization and mapping through data marshalling and multithreaded programming.
- Explored and designed a roadway pothole mapping application using lidar sensors in an efficient, cost-effective manner that won a TechQuest innovation grant for $10,000.

Education

Master of Science in Machine Learning *Expected: May 2023*
Certificate in Algorithmic Trading *Hoboken, NJ*
GPA: 3.93/4.0
Stevens Institute of Technology

Bachelor of Science in Computer Science *September 2016–May 2020*
Minor in Applied Statistics *Newark, NJ*
GPA: 3.34/4.0
New Jersey Institute of Technology

Projects

Black Scholes Pricing System
Built an open-source web application that can price European option contracts using the Black Scholes Merton partial differential equation.

Fama French Allocation Engine
Created a custom factor-based allocation engine that leverages the Fama French Three Factor model to simulate a long/short trading strategy against a set of exchange traded funds.

The Computer Vision Toolkit
Produced a collection of computer vision tools varying from edge tracing using non-maximum suppression to sky detection using K-means clustering.

Supervised Learning Challenge
Placed within the top of the class for producing an accurate support vector machine learning model that predicts the Boolean target value of a large, anonymized data set with more than 200 features.